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SELF-ALIGNING MECHANICAL POINTER

TECHNICAL FIELD

This invention is designed for use with vehicle mounted line stripers.

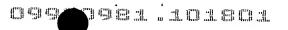
BACKGROUND ART

While various types of video and mechanical guidance systems are known for use with vehicle mounted line stripers, all systems known to date suffer somewhat with rear mounted stripers in that while attempting to stripe over an existing line. While cornering, the front of the vehicle must track slightly to the outside of the line in order to keep the paint guns on the existing lines.

DISCLOSURE OF THE INVENTION

A pivoting wheel rides on the road surface and is connected to a swing arm with an adjustable linkage to another swing arm supporting a vertical rod which acts as a line guide.

These and other objects and advantages of the invention will appear more fully from the following description made in conjunction with the accompanying drawings



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wherein like reference characters refer to the same or similar parts throughout the several views.

BRIEF DESCRIPTION OF DRAWINGS

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Figure 1 is a top plan view of the guidance system of the instant invention.

Figure 2 is a front perspective view showing the guidance system mounted to a vehicle with the guide rod tracking the preexisting line.

Figure 3 is an operator's view from inside the vehicle cab showing the guide rod following the line on a forward looking video system.

BEST MODE FOR CARRYING OUT THE INVENTION

The instant invention is generally designated 10 and shows a frame 12 attached to the front of a vehicle 14. A guide wheel 16 rides on the road surface and is rotatably carried by a pivoting wheel holder 18. Wheel holder 18 is connected to a swing arm 20, both of which pivot on frame 12 at pivot point 22. An adjustable linkage member 24 connects first swing arm 20 to second swing arm 26 supporting a vertical guide rod 28 which acts as a line guide. Second swing arm 26 is pivotably mounted to the end of frame 12. As can be seen in Figure 1, first and second swing arms 20 and 26 respectively each have a plurality of adjustment holes which allow the geometry of the linkage to be adjusted to suit a variety of vehicles and guidance systems.

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As shown in the drawings, the instant invention is designed for use with the forward looking guidance system sold by Graco Inc., assignee of the instant invention for use with the ROAD LAZERTM line striper. In operation, the operator need merely maintain the guide rod 28 with the line on which striping is desired (preexisting or otherwise).

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It is contemplated that various changes and modifications may be made to the guidance system without departing from the spirit and scope of the invention as defined by the following claims.

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